State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES
WSPCD - Subsurface Systems Bureau
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Pressure Distribution Worksheet

TOWN:_____ OWNER'S NAME:_____ DATE:_____

(1) Sizing the leachfield:

_____ Bedrooms @ _____GPD/= _____GPD = _____Square Feet

bedroom 0.8 GPD/S.F.

Provided: _____FT. (Length) x _____FT. (Width) = _____ Square Feet

(2) Calculate Perforation Discharge Rate (PDR):

Distal Pressure = _____FT (usually 2 or 2 1/2 feet)

Perforation Size = _____inch

From Table 1

PDR = _____ Gal/Minute/Hole

(3) Determine Lateral Discharge Rate (LDR):

Number Perforations = Length of lateral = _____FT = _____ holes/lateral

Spacing of Perforations

LDR = Number of Perforations x PDR

_____ x _____ Gal/Minute/Hole = _____ gal/min

(4) Determine Lateral Diameter Size:

Perforation Size = _____inch; Lateral Length = _____FT;

Perforation Spacing = _____ = FT

From Table 2, Size of Lateral =_____ inch

Provided size of lateral =_____ inch

(5) Determine Manifold Size:

Manifold Type: Central ( ) End ( )

(OVER)

Manifold Length = _____FT; Lateral Spacing = _____FT; LDR = _____GPM

From Table 3, Manifold Size = _____ inches

Provided manifold size = _____ inches

(6) Determine Dose Volume:

Maximum Dose Volume = _____ GPD = _____Gal/dose

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Dose Volume = Dose volume must be 5 to 10 times pipe volume but must not exceed 0.2 Gal/S.F./dose

Lateral Volume = _____FT/Laterals x _____Laterals x_____Gal/FT = _____

Manifold Volume = _____FT x _____Gal/FT = _____

Dose Volume = _____

Dose Volume x 5 = _____

Dose Volume X 10 = _____

Proposed Dose Volume GT 5 times pipe volume & LT Maximum Dose Volume

(7) Pump Capacity (GPM):

_____Laterals x _____GPM/Lateral = _____ GPM

(8) Determine total head loss:

(a) Static Head = Lateral elevation minus low water elevation = _____ FT

(b) Delivery Loss = Distal pressure times 1.31 = _____ FT

(c) Friction Loss = ____FT (from table 4) x ____ Length Force Main _____ FT

100

Total Head Loss _____FT

(9) Determine Basal Area:

Perc Rate = _____ min/inch = _____ S.F./100 Gal x _____ GPD = _____S.F.

Note: Make sure basal area is downslope of field.